

Title (en)
BICYCLE SYSTEM

Title (de)
FAHRRADSYSTEM

Title (fr)
SYSTÈME DE BICYCLETTE

Publication
EP 3010791 A2 20160427 (EN)

Application
EP 14813279 A 20140620

Priority
• GB 201311001 A 20130620
• US 201461978464 P 20140411
• US 2014043405 W 20140620

Abstract (en)
[origin: WO2014205345A2] The field of the invention relates to bicycle systems, especially to bicycle systems adapted for use with smartphones, to smartphones configured for use with bicycle systems, and to methods and to computer software for use with such bicycle systems or smartphones, and to servers configured to communicate with such bicycle systems or smartphones. According to a first aspect of the invention, there is provided a bicycle system including a bicycle, the bicycle system including a processor integral to the bicycle, the bicycle system further including a battery integral to the bicycle, wherein the processor is powerable by the battery, the bicycle system including a smartphone holder configurable to receive a smartphone and to connect the smartphone to the processor, wherein in use the smartphone holder is attachable to, and detachable from, the smartphone. Advantages include that the smartphone can be charged by the battery, the smartphone can communicate with the processor so as to receive various information such as maintenance-related information of the bicycle system, the bicycle system can investigate the smartphone identity to check for unauthorized use of the bicycle system, the smartphone is held during bicycle system travel which reduces the risk of damage to the smartphone, and the bicycle system shape is more aerodynamic than that of a bicycle to which a processor and/or a battery has merely been bolted-on.

IPC 8 full level
B62H 5/00 (2006.01); **A23L 27/10** (2016.01); **B62J 3/00** (2006.01); **B62J 6/16** (2006.01); **B62J 11/00** (2006.01); **B62K 21/12** (2006.01); **H04L 29/00** (2006.01)

CPC (source: EP KR US)
B62H 5/00 (2013.01 - EP US); **B62H 5/10** (2013.01 - EP KR US); **B62H 5/20** (2013.01 - EP KR US); **B62J 3/10** (2020.02 - EP KR US); **B62J 6/056** (2020.02 - EP KR US); **B62J 6/16** (2013.01 - EP KR US); **B62J 43/20** (2020.02 - EP KR US); **B62J 43/30** (2020.02 - EP KR US); **B62J 45/20** (2020.02 - EP KR US); **B62J 45/414** (2020.02 - EP KR US); **B62J 50/21** (2020.02 - EP US); **B62J 50/225** (2020.02 - KR); **B62K 21/12** (2013.01 - EP KR US); **B62K 23/02** (2013.01 - US); **F16M 13/02** (2013.01 - KR); **H04B 1/38** (2013.01 - KR); **H04M 1/04** (2013.01 - KR); **H04M 1/72409** (2021.01 - KR); **H04M 1/724098** (2022.02 - EP US)

Cited by
EP3666630A4; AT523996A1; EP4261077A1; WO2019106020A1; US11859411B2; USD929268S; USD996299S; US11654990B2; US11787489B2; EP3567193B1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2014205345 A2 20141224; WO 2014205345 A3 20150305; AU 2014284215 A1 20160128; AU 2014284215 B2 20180712; AU 2018247312 A1 20181108; AU 2020204512 A1 20200723; AU 2022203610 A1 20220616; CA 2916204 A1 20141224; CA 2916204 C 20220322; CN 105555652 A 20160504; CN 105555652 B 20190823; EP 3010791 A2 20160427; EP 3010791 A4 20170308; EP 3010791 B1 20190220; EP 3511234 A1 20190717; ES 2718601 T3 20190703; GB 201311001 D0 20130807; JP 2016523203 A 20160808; JP 2019081539 A 20190530; JP 6553026 B2 20190731; JP 6974299 B2 20211201; KR 101872130 B1 20180627; KR 20160046791 A 20160429; US 10093379 B2 20181009; US 10926824 B2 20210223; US 2016221627 A1 20160804; US 2018194421 A1 20180712; US 2021291922 A1 20210923

DOCDB simple family (application)
US 2014043405 W 20140620; AU 2014284215 A 20140620; AU 2018247312 A 20181012; AU 2020204512 A 20200706; AU 2022203610 A 20220527; CA 2916204 A 20140620; CN 201480046523 A 20140620; EP 14813279 A 20140620; EP 19157777 A 20140620; ES 14813279 T 20140620; GB 201311001 A 20130620; JP 2016521844 A 20140620; JP 2018242364 A 20181226; KR 20167001714 A 20140620; US 201414899501 A 20140620; US 201815902585 A 20180222; US 202117181487 A 20210222